Surface mount rc device

Patent Number:	EP1061535
Publication date:	2000-12-20
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Requested Patent:	EP1061535
Application Number:	EP20000304693 20000602
Priority Number (s):	US19990335991 19990618
IPC Classification:	H01G4/40
EC Classification:	
Equivalents:	CN1279533, JP2001044076 (JP01044076), NO20003015

Abstract

Both discrete and array RC components are described using cofireable resistive material as part of internal electrodes of the device. The devices include a sintered body of multilayer ceramic material in which multiple first and second electrode layers are stacked. Each of the first layers comprises at least one resistive electrode pattern extending across the sintered body between respective pairs of terminations. The second layers comprise an electrode pattern extending transverse to the resistive electrode pattern, such as between end terminations. In some embodiments, opposing side electrodes serve as input and output terminals of a respective feedthrough filter. In a feedthrough arrangement, the third terminal may be provided by one or both of the end terminals. The invention also describes an improved termination structure including a layer made from a metal oxide material.